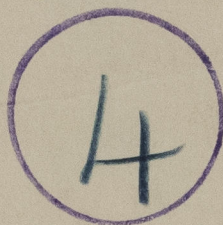


★ *s/s "Empire Tugela" Port. Lft. No. 7522.*



General Agent

RECORDS DEPT.,
LONDON



014695 - 014703 - 0249



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0249

Empire



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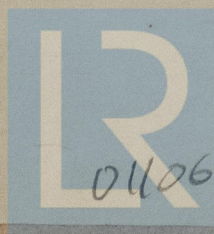
4

Landsdowne

"Liverpool Manx. f."

EX "Empire Raja" ❀

EX Capacity Plan



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04062-01070-0092

HOLD CAPACITIES	CUB. FT.	GRAIN	BALE
NO 1 HOLD	65300	59826	
NO 2	124138	114355	
NO 3	59968	54494	
NO 4	59544	53434	
TOTAL UNDER DECK	308950	282109	
TWEEN DECK NO 1	31856	28677	
NO 2	38176	34504	
NO 3	19071	15221	
NO 4	16846	14727	
NO 5	15928	14798	
NO 6	38142	34257	
TOTAL TWEEN DECK	160019	142184	
UNDER	308950	282109	
BETWEEN TH. & UNDER DECK	468969	424293	
HOLD UNDER POOP DECK	14745	12950	
TOTAL TWEEN DECK & POOP	483714	437243	
BRIDGE SPACE NO 1	30513	26523	
TOTAL BRIDGE SPACE	514227	463766	
BRIDGE SPACE NO 2	16846	14833	
GRAND TOTAL OF HOLDS	531073	478599	
STORE ROOM BELOW POOP DECK	9606	8017	
UPPER	3542	2599	
LOWER	495	245	
COLD STORAGE	1346	1346	
STORE ROOM FORECASTLE NO 3 DECK	1430	961	
NO 4 DECK	1095	635	
BOATSWAIN'S STORE	2825	2048	
TOTAL OF STORE ROOMS	20339	15851	
GRAND TOTAL OF HOLDS	551412	494450	

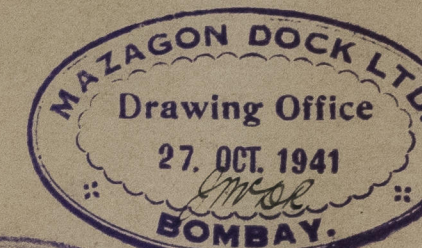
S.S. "EMPIRE RAJA" (EX. WILDENFELS.)

CAPACITY PLAN.

22-10-1941

Scale 1:200

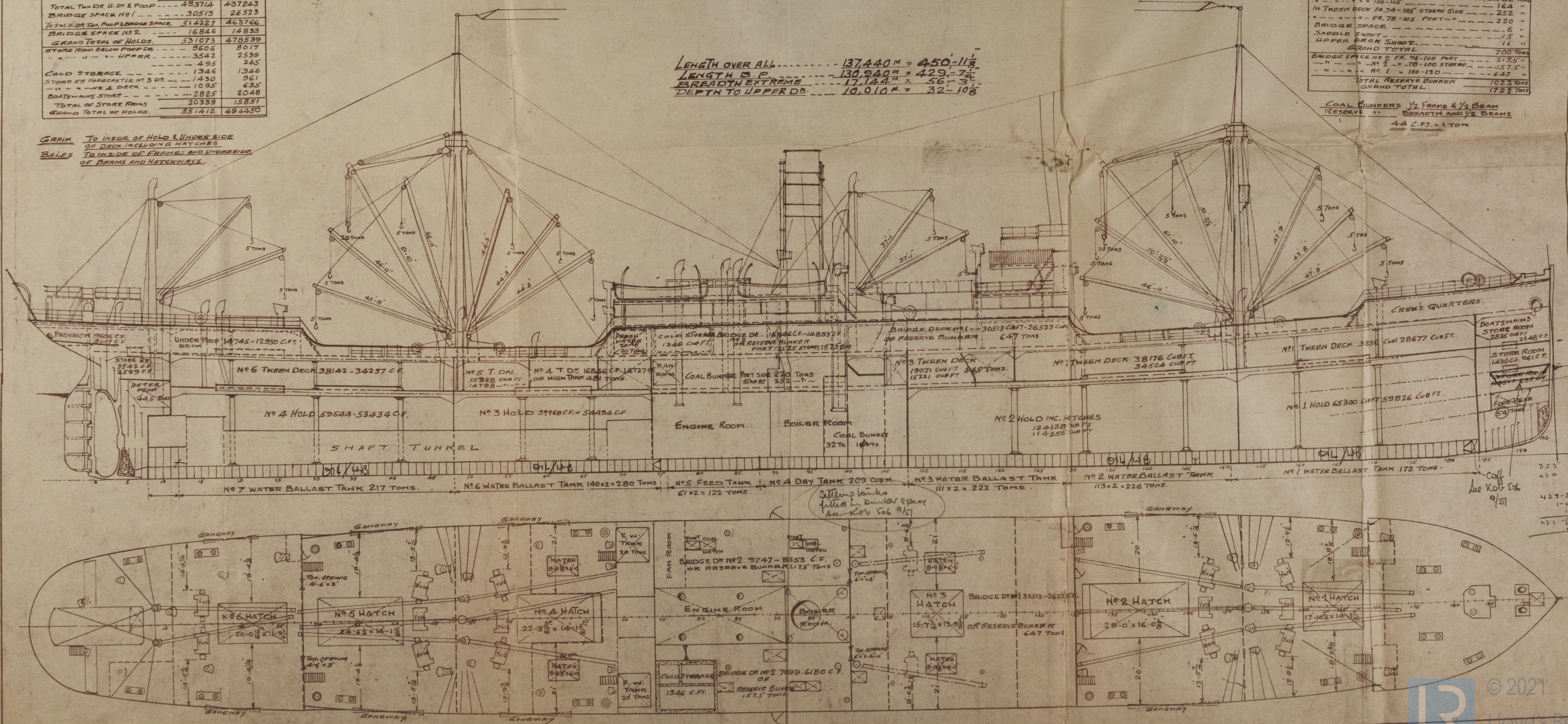
LENGTH OVER ALL 137.440 M = 450'-11 1/2"
 LENGTH B.P. 130.940 M = 429'-7 1/2"
 BREADTH EXTREME 17.144 M = 56'-3"
 DEPTH TO UPPER DECK 10.010 M = 32'-10"



TANKS	
NO 1 WATER BALLAST TANK	172 TONS
NO 2	226 "
NO 3	222 "
NO 4 DRY TANK	122 "
NO 5 FEED TANK	217 "
NO 6 WATER BALLAST TANK	280 "
NO 7	217 "
TOTAL DOUBLE BOTTOM	1239 TONS
AFTER PEAK W.B. TANK	44.5 "
FORE PEAK W.B. TANK	54 "
HIGH TANK FA 58-74	481 "
" " " 105-122	545 "
TOTAL W.B. TANKS	2363.5 TONS
FRESH WATER TANK UPPER SPACE	40 "

COAL BUNKER	
IN HOLD P.A.S. 97-100	32 TONS
100-105	164 "
IN TWEEN DECK FA 74-105 STARBOARD SIDE	252 "
" " " " " PORT "	220 "
BRIDGE SPACE	6 "
SADDLE SHOOT	15 "
UPPER DECK SHOOT	11 "
GRAND TOTAL	700 TONS
BRIDGE SPACE NO 2 FA 74-100 PORT	217.5 "
" " " " " STARBOARD	157.5 "
" " " " " 100-130	647 "
TOTAL RESERVE BUNKER	1023 TONS
GRAND TOTAL	1723 TONS

COAL BUNKERS 1/2 FRAME & 1/2 BEAM
 RESERVE 11' BREADTH AND 1/2 BEAMS
 44 C.F. = 1 TON



GRAIN TO INSIDE OF HOLD & UNDER SIDE OF DECK INCLUDING HATCHES
 BALES TO INSIDE OF FRAMES AND UNDERSIDE OF BEAMS AND HATCHWAYS

Landsdowne.

"Empire Raja" *

Midship section.

Liverpool
* Yarn



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Lloyds Register
Shipping

011062-011070-0051

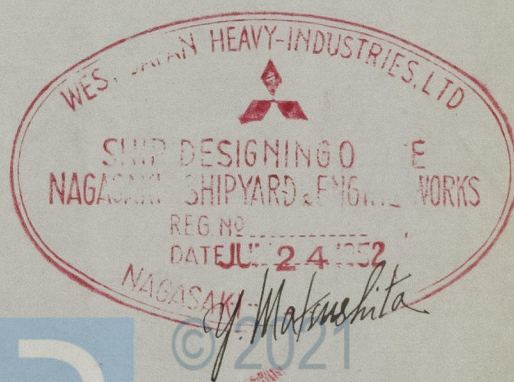


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JUN 27 1952

TYPICAL DETAIL OF BULWARK

SCALE 1/25

BULWARK STAY (1/25)

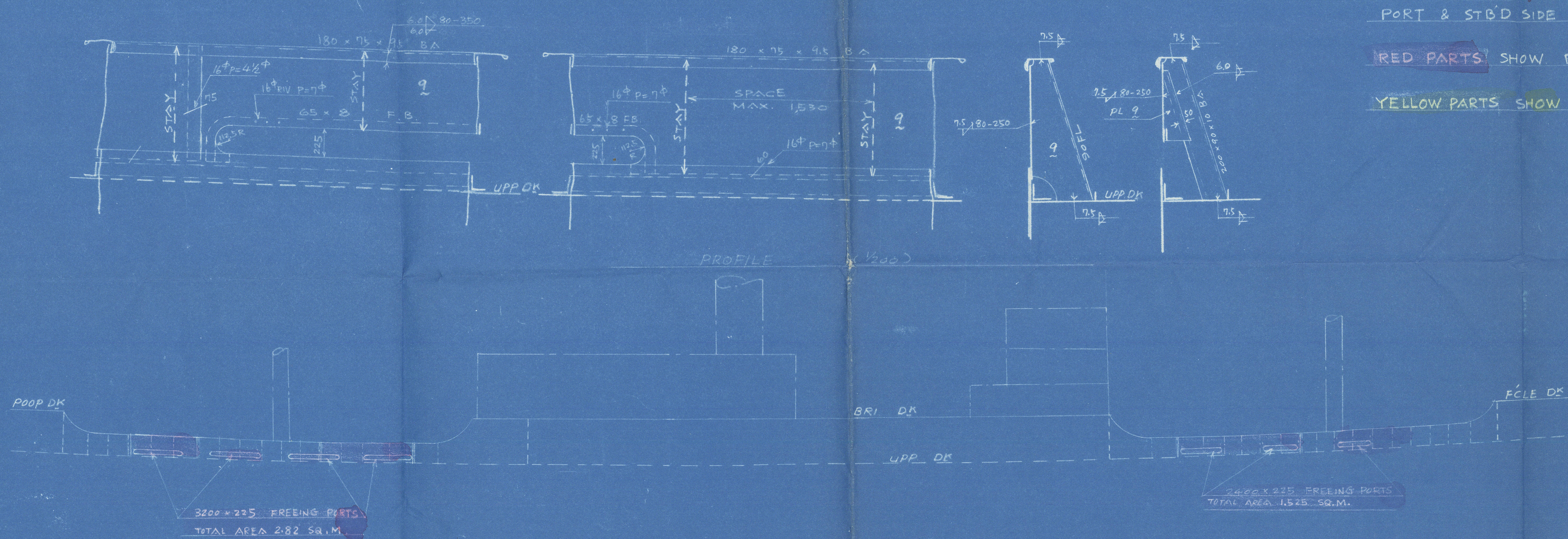
(GENERAL)

NOTES:

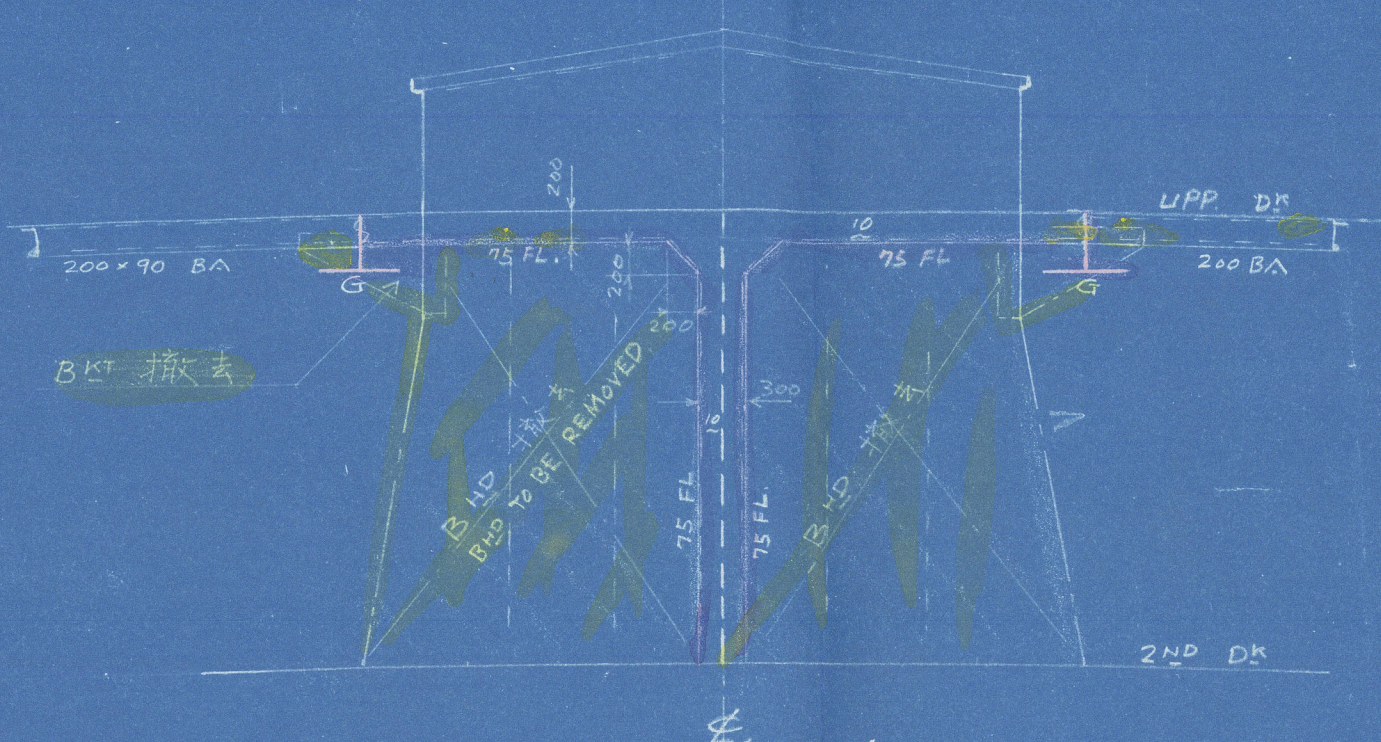
PORT & STBD SIDE ARE SIMILAR

RED PARTS SHOW REMOVED PARTS

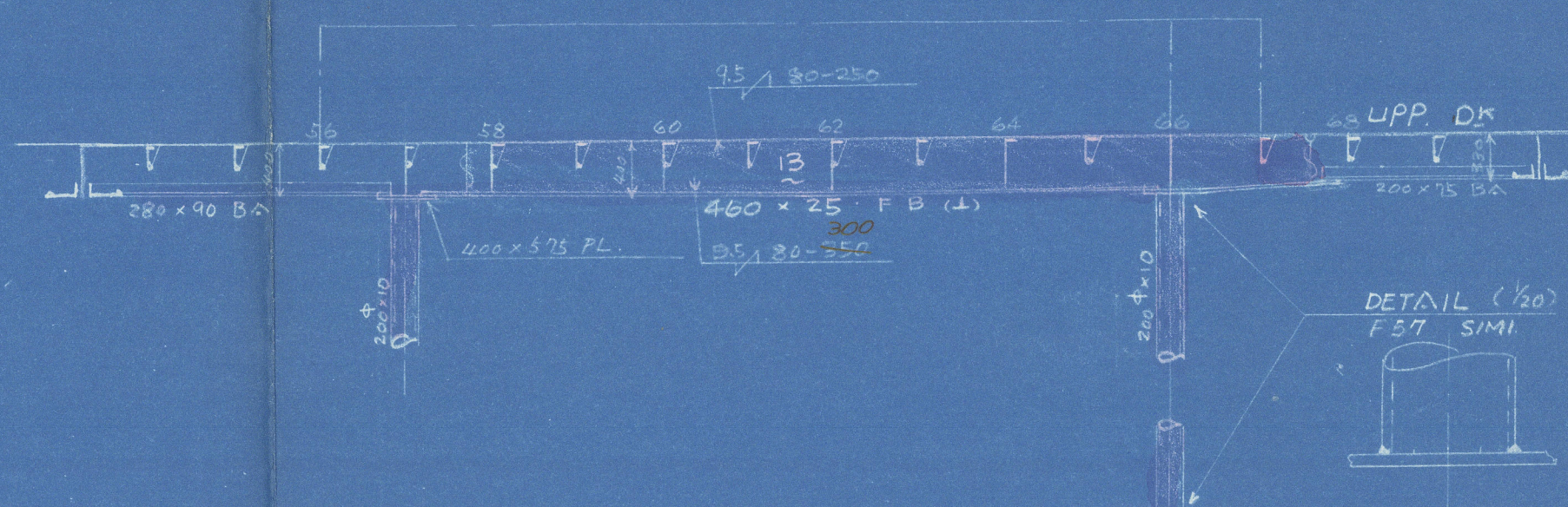
YELLOW PARTS SHOW NEWLY BUILT PARTS



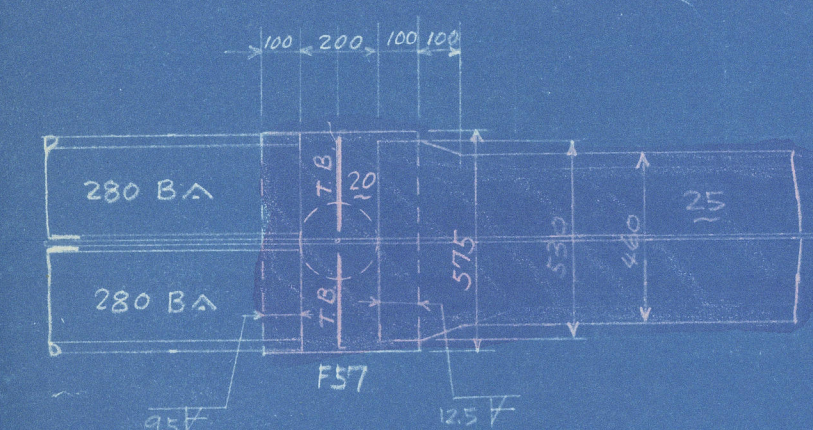
SEC. AT F. 67 LOOKING FORWARD



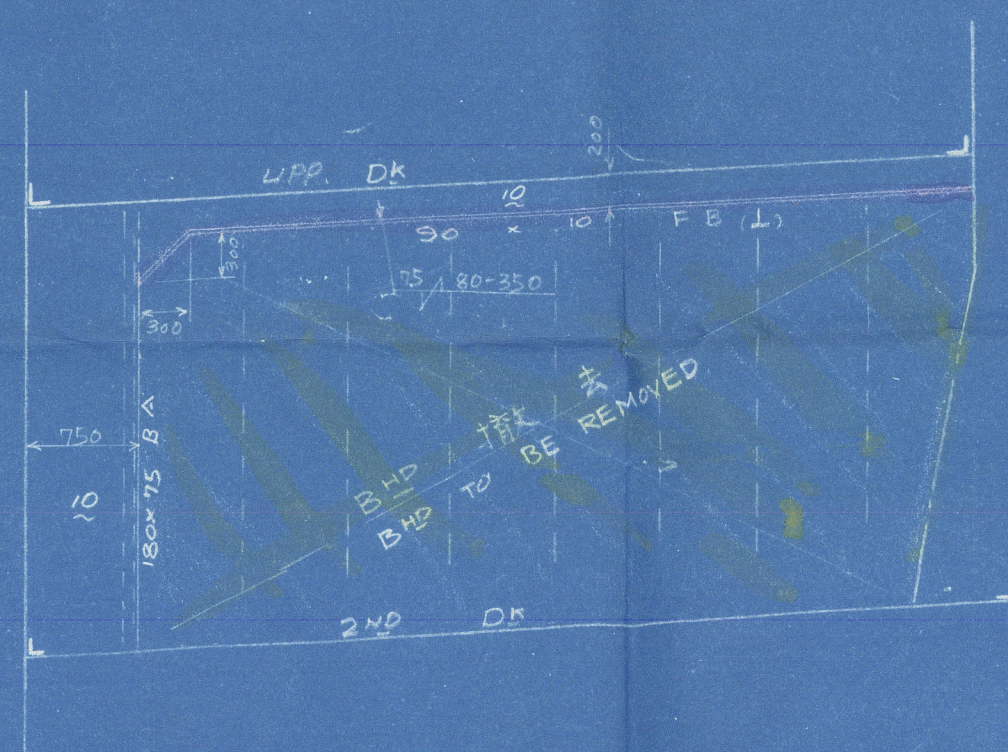
F 57~66 W S P GIRDER LOOKING TO P. SIDE



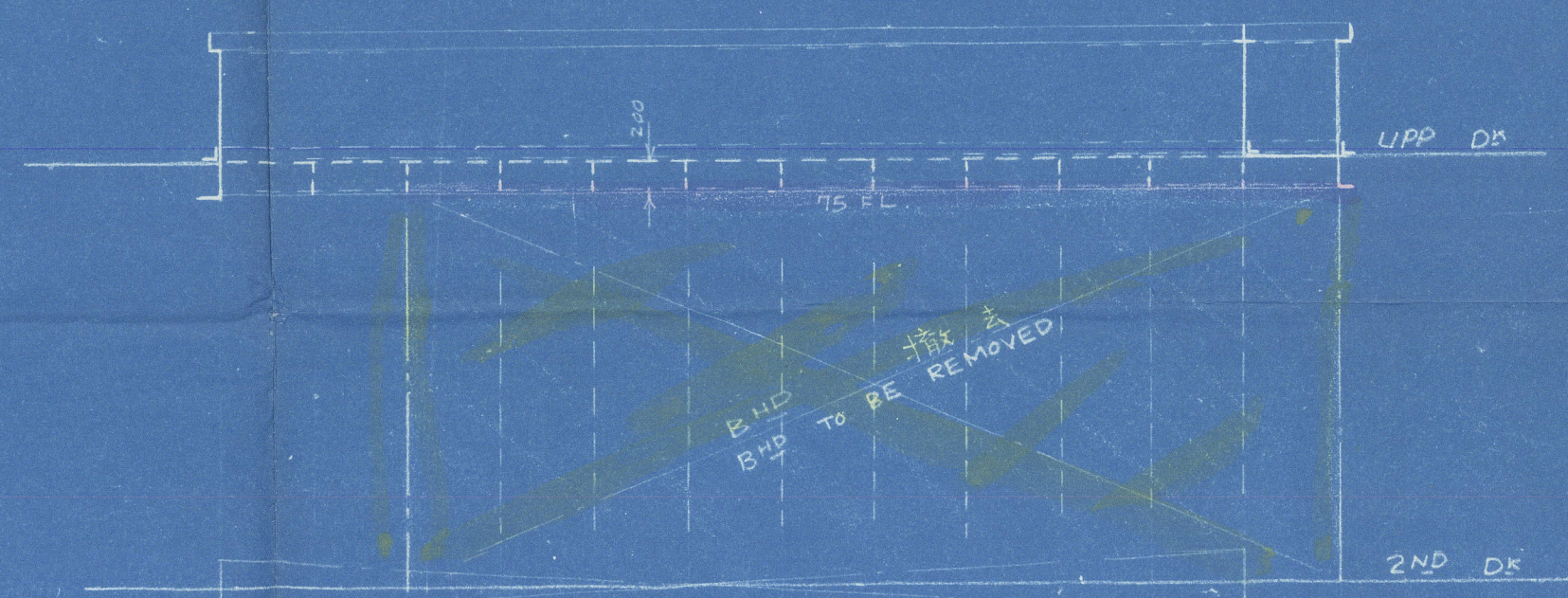
DETAIL OF F BAR F 57 (1/20)



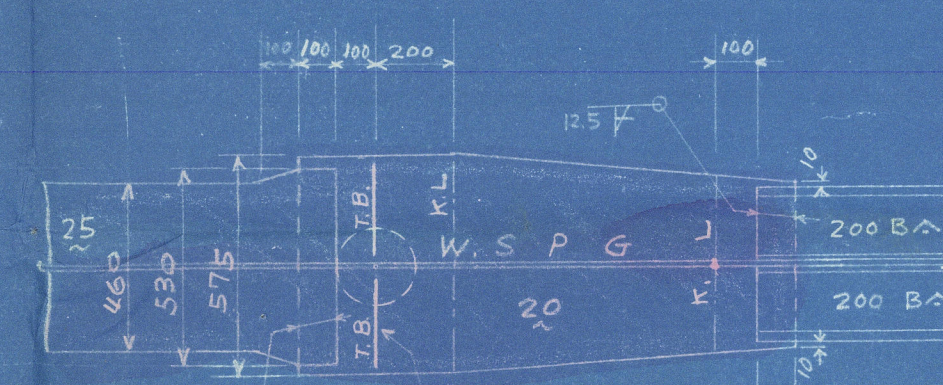
SEC. AT F. 53 LOOKING FORWARD



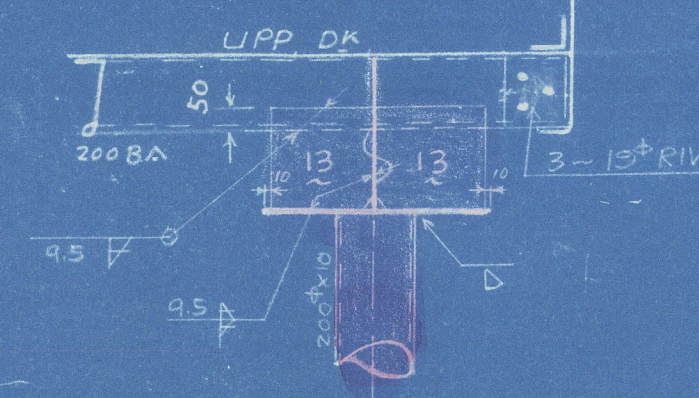
Nº 4 C. HATCH SIDE COAMING LOOKING TO P. SIDE



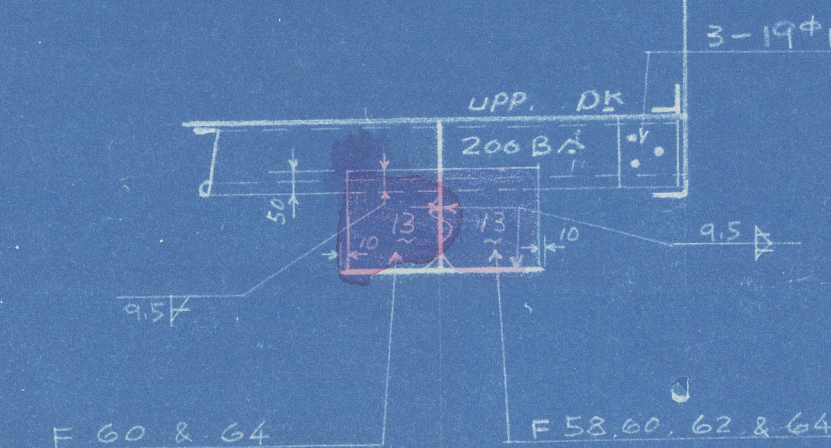
DETAIL OF F BAR F 66 (1/20)



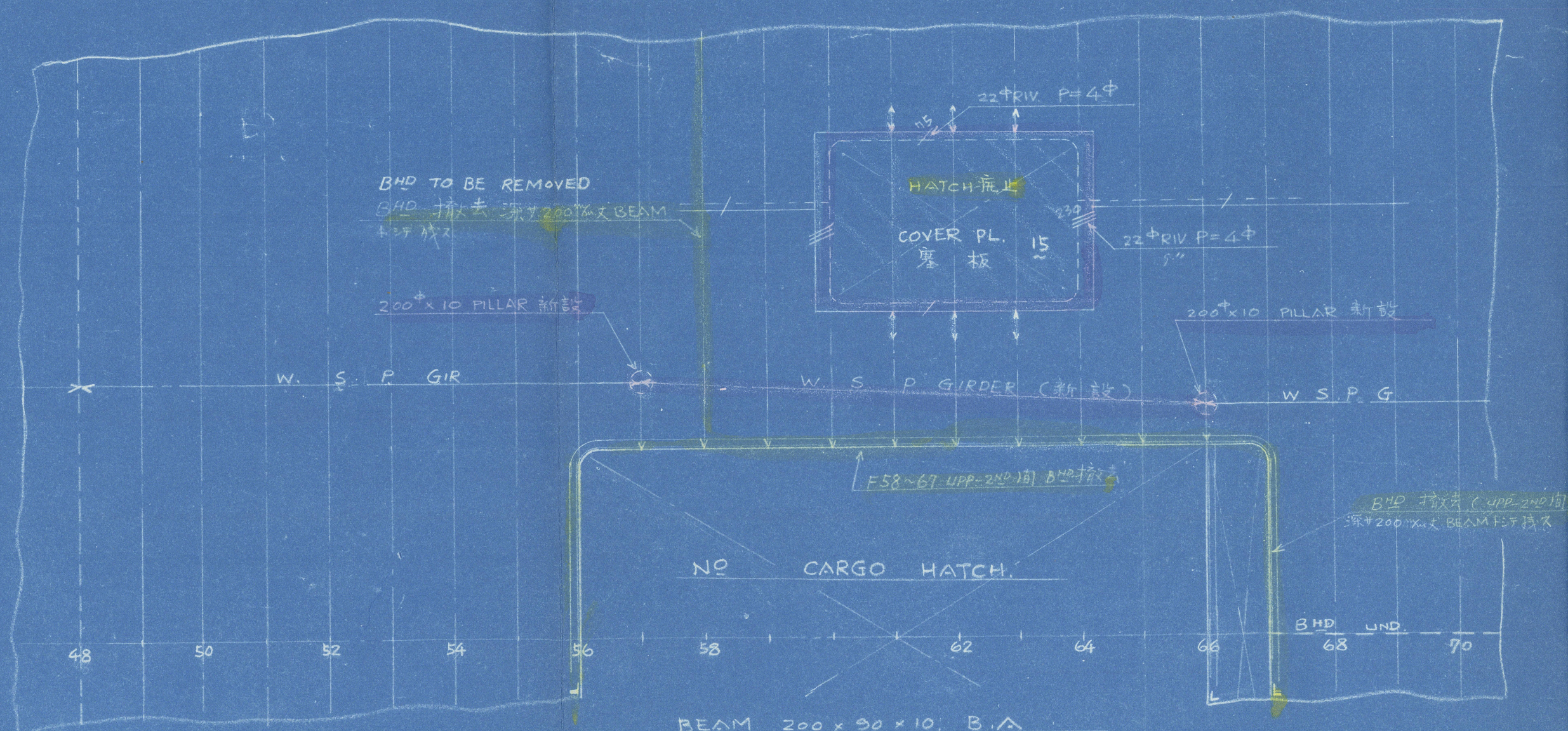
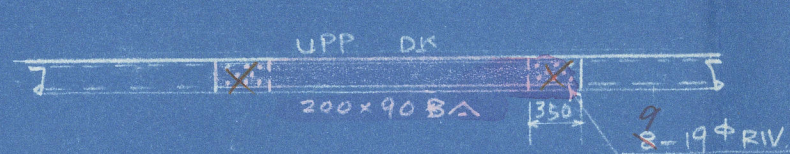
DETAIL OF T. BKT F 57 SIMI



DETAIL OF T. BKT GENERAL (1/20)



F 61~63 UPP DK BEAMS 1/50



FIRST SHIPPING CO. LTD
LIVERPOOL MARU

RECONSTRUCTION PLAN
OF
Nº 3 CARGO HOLD
& ETC.

DIMENSION 130.94 x 17.144 x 10.01 x 8.25
SCALE 1/50, 1/25, 1/20 CLASS L.R.

HULL DESIGNING SECTION
SHIP DESIGNING DEPARTMENT
NAGASAKI SHIPYARD & ENGINE WORKS

CHIEF OF DEPT.
CHIEF
HEAD
CHECKED
DRAWN
DATE MAY 24 1982 REG. NO.
WEST JAPAN HEAVY INDUSTRIES, LTD.
TOKYO JAPAN

SHIP NO R-3457

DWG NO

出	入	出	入
1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24
25	26	27	28
29	30	31	32
33	34	35	36
37	38	39	40
41	42	43	44
45	46	47	48
49	50	51	52
53	54	55	56
57	58	59	60
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65	66	67	68
69	70	71	72
73	74	75	76
77	78	79	80
81	82	83	84
85	86	87	88
89	90	91	92
93	94	95	96
97	98	99	100